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#### 1 Complex permeability of demagnetized microwave ferrites near and above gyromagnetic resonance

*Krupka, J.; Geyer, R.G.;*

Magnetics, IEEE Transactions on , Volume: 32 , Issue: 3 , May 1996

Pages:1924 - 1933

[Abstract] [PDF Full-Text (900 KB)] IEEE JNL

#### 2 Layered Al<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> composite dielectric resonators with tuneable temperature coefficient for microwave applications

*Alford, N.McN.; Breeze, J.; Penn, S.J.; Poole, M.;*

Science, Measurement and Technology, IEE Proceedings- , Volume: 147 , Issue: 6 , Nov. 2000

Pages:269 - 273

[Abstract] [PDF Full-Text (400 KB)] IEE JNL

#### 3 HTSC inverted and conventional geometry microstrip resonator for UHF frequencies

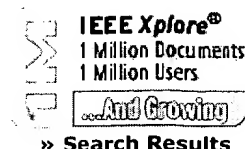
*Kuhn, M.; Klinger, M.; Baranyak, A.; Hinken, J.H.;*

Magnetics, IEEE Transactions on , Volume: 27 , Issue: 2 , Mar 1991

Pages:2809 - 2812

[Abstract] [PDF Full-Text (228 KB)] IEEE JNL


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**1 A MEMS-based monolithic electrostatic microactuator for ultra-low magnetic disk head fly height control**
*Fang Chen; Huikai Xie; Fedder, G.K.;*

Magnetism, IEEE Transactions on, Volume: 37, Issue: 4, July 2001

Pages:1915 - 1918

[\[Abstract\]](#)   [\[PDF Full-Text \(224 KB\)\]](#)   **IEEE JNL**
**2 HDD actuator resonance detection through acoustic signal analysis**
*Weilu Wang; Guoxiao Guo; Chong, T.-C.;*

Magnetism, IEEE Transactions on, Volume: 36, Issue: 5, Sept 2000

Pages:3585 - 3587

[\[Abstract\]](#)   [\[PDF Full-Text \(52 KB\)\]](#)   **IEEE JNL**
**3 Piezoelectric piggy-back microactuator for hard disk drive**
*Soeno, Y.; Ichikawa, S.; Tsuna, T.; Sato, Y.; Sato, I.;*

Magnetism, IEEE Transactions on, Volume: 35, Issue: 2, March 1999

Pages:983 - 987

[\[Abstract\]](#)   [\[PDF Full-Text \(448 KB\)\]](#)   **IEEE JNL**
**4 An adaptive resonant mode compensation for hard disk drives**
*Ohno, K.; Hara, T.;*

Advanced Motion Control, 2004. AMC '04. The 8th IEEE International Workshop on, 25-28 March 2004

Pages:329 - 334

[\[Abstract\]](#)   [\[PDF Full-Text \(1499 KB\)\]](#)   **IEEE CNF**
**5 Head-positioning control using resonant modes in hard disk drives**
*Atsumi, T.; Arisaka, T.; Shimizu, T.; Masuda, H.;*

Advanced Motion Control, 2004. AMC '04. The 8th IEEE International Workshop on, 25-28 March 2004

Pages:311 - 316

[\[Abstract\]](#) [\[PDF Full-Text \(1519 KB\)\]](#) [IEEE CNF](#)

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**6 Boosting servo bandwidth***Heath, J.S.;*

Asia-Pacific Magnetic Recording Conference, 2000. APMRC 2000 , 6-8 Nov. 2000

Pages:MP20/1 - MP20/2

[\[Abstract\]](#) [\[PDF Full-Text \(168 KB\)\]](#) [IEEE CNF](#)

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**7 Experimental dynamic modeling and characterisations of disk platter resonances***Chee Khiang Pang; Eng Hong Ong; Guoxiao Guo;*

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Pages:BS12

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**8 Enhancing suspension performance with 3-ply laminated load beam***Thaveerungsriporn, V.; Sittipongpanich, K.; Imoeb, P.; Chayapancha, M.;*

Magnetic Recording Conference, 2002. Digest of the Asia-Pacific , 27-29 Aug. 2002

Pages:TU-P-22-01 - TU-P-22-02

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**9 Improved mechanical designs for HDD***Gih Keong Lau; Hejun Du;*

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Pages:TU-P-21-01 - TU-P-21-02

[\[Abstract\]](#) [\[PDF Full-Text \(256 KB\)\]](#) [IEEE CNF](#)

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**10 Optimal design of suspensions for high-density magnetic recording systems***Gih Keong Lau; Hejun Du; Ling Pan;*

Magnetics, IEEE Transactions on , Volume: 38 , Issue: 5 , Sept. 2002

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**11 Electrostatic piggyback microactuators for head element positioning***Mita, M.; Toshiyoshi, H.; Fujita, H.;*

Magnetic Recording Conference, 2002. Digest of the Asia-Pacific , 27-29 Aug. 2002

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[\[Abstract\]](#) [\[PDF Full-Text \(244 KB\)\]](#) [IEEE CNF](#)

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Optical Memory and Optical Data Storage Topical Meeting, 2002. International Symposium on , 7-11 July 2002

Pages:159 - 161

[\[Abstract\]](#)   [\[PDF Full-Text \(273 KB\)\]](#)   **IEEE CNF****2 Comparative analysis on resonance compensation in HDD dual-stage actuation systems***Daowei Wu; Guoxiao Guo; Tow C Chong;*

Industrial Electronics, IEEE Transactions on , Volume: 50 , Issue: 6 , Dec. 2003

Pages:1179 - 1186

[\[Abstract\]](#)   [\[PDF Full-Text \(530 KB\)\]](#)   **IEEE JNL****3 A phase-stabilized servo controller for dual-stage actuators in hard disk drives***Kobayashi, M.; Nakagawa, S.; Nakamura, S.;*

Magnetics, IEEE Transactions on , Volume: 39 , Issue: 2 , March 2003

Pages:844 - 850

[\[Abstract\]](#)   [\[PDF Full-Text \(839 KB\)\]](#)   **IEEE JNL****4 Seek control and settling control taming actuator resonance of hard disk drives***Takaishi, K.; Saito, S.;*

Magnetics, IEEE Transactions on , Volume: 39 , Issue: 2 , March 2003

Pages:838 - 843

[\[Abstract\]](#)   [\[PDF Full-Text \(405 KB\)\]](#)   **IEEE JNL****5 Vibration control of a PZT actuated suspension dual-stage servo system using a PZT sensor**

*Yunfeng Li; Horowitz, R.; Evans, R.;*  
Magnetics, IEEE Transactions on , Volume: 39 , Issue: 2 , March 2003  
Pages:932 - 937

[\[Abstract\]](#) [\[PDF Full-Text \(358 KB\)\]](#) [IEEE JNL](#)

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**6 Air-bearing linear actuator for highly precise tracking**

*Mori, S.; Hoshino, T.; Obinata, G.; Ouchi, K.;*  
Magnetics, IEEE Transactions on , Volume: 39 , Issue: 2 , March 2003  
Pages:812 - 818

[\[Abstract\]](#) [\[PDF Full-Text \(645 KB\)\]](#) [IEEE JNL](#)

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**7 Vibration and noise reduction of an optical disk drive by using a vibration absorber**

*Jin Wook Heo; Jintai Chung; Jun Min Park;*  
Consumer Electronics, IEEE Transactions on , Volume: 48 , Issue: 4 , Nov 2002  
Pages:874 - 878

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**8 Optimal design of suspensions for high-density magnetic recording systems**

*Gih Keong Lau; Hejun Du; Ling Pan;*  
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Pages:2165 - 2167

[\[Abstract\]](#) [\[PDF Full-Text \(192 KB\)\]](#) [IEEE JNL](#)

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**9 HIL simulation system for HDD servo firmware**

*Senta, Y.; Sato, Y.; Okamura, E.;*  
Magnetics, IEEE Transactions on , Volume: 38 , Issue: 5 , Sept. 2002  
Pages:2204 - 2206

[\[Abstract\]](#) [\[PDF Full-Text \(253 KB\)\]](#) [IEEE JNL](#)

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**10 Thin-film piezoelectric DSA for HDD**

*Kuwajima, H.; Matsuoka, K.;*  
Magnetics, IEEE Transactions on , Volume: 38 , Issue: 5 , Sept. 2002  
Pages:2186 - 2188

[\[Abstract\]](#) [\[PDF Full-Text \(220 KB\)\]](#) [IEEE JNL](#)

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**11 Manufacturing process of piezoelectric thin-film dual-stage actuator and its reliability for HDD**

*Kuwajima, H.; Uchiyama, H.; Ogawa, Y.; Kita, H.; Matsuoka, K.;*  
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Pages:2156 - 2158

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**12 A simulation and control design environment for single-stage and dual-stage hard disk drives**

*Oboe, R.; Beghi, A.; Capretta, P.; Soldavini, F.C.;*  
Mechatronics, IEEE/ASME Transactions on , Volume: 7 , Issue: 2 , June 2002  
Pages:161 - 170

[\[Abstract\]](#) [\[PDF Full-Text \(427 KB\)\]](#) **IEEE JNL**

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**13 Modeling and experimental analysis of the vibrations in hard disk drives**

*Ferretti, G.; Magnani, G.; Rocco, P.;*

Mechatronics, IEEE/ASME Transactions on , Volume: 7 , Issue: 2 , June 2002

Pages:152 - 160

[\[Abstract\]](#) [\[PDF Full-Text \(309 KB\)\]](#) **IEEE JNL**

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**14 Controller optimization for minimum position error signals of hard disk drives**

*Ho Seong Lee;*

Industrial Electronics, IEEE Transactions on , Volume: 48 , Issue: 5 , Oct. 2001

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**15 Suppression of resonance amplitude of disk vibrations by squeeze air bearing plate**

*Deeyiengyang, S.; Ono, K.;*

Magnetics, IEEE Transactions on , Volume: 37 , Issue: 2 , March 2001

Pages:820 - 825

[\[Abstract\]](#) [\[PDF Full-Text \(216 KB\)\]](#) **IEEE JNL**

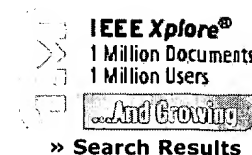
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Magnetics, IEEE Transactions on , Volume: 37 , Issue: 2 , March 2001

Pages:799 - 804

[\[Abstract\]](#)   [\[PDF Full-Text \(160 KB\)\]](#)   **IEEE JNL****17 Novel method for minimizing track seeking residual vibrations of hard disk drives***Sheng Zeng; Rong-Ming Lin; Li-Mei Xu;*

Magnetics, IEEE Transactions on , Volume: 37 , Issue: 3 , May 2001

Pages:1146 - 1156

[\[Abstract\]](#)   [\[PDF Full-Text \(276 KB\)\]](#)   **IEEE JNL****18 HDD actuator resonance detection through acoustic signal analysis***Weilu Wang; Guoxiao Guo; Chong, T.-C.;*

Magnetics, IEEE Transactions on , Volume: 36 , Issue: 5 , Sept 2000

Pages:3585 - 3587

[\[Abstract\]](#)   [\[PDF Full-Text \(52 KB\)\]](#)   **IEEE JNL****19 Adaptive compensation of microactuator resonance in hard disk drives***Daowei Wu; Guoxiao Guo; Chong, T.-C.;*

Magnetics, IEEE Transactions on , Volume: 36 , Issue: 5 , Sept 2000

Pages:2247 - 2250

[\[Abstract\]](#)   [\[PDF Full-Text \(80 KB\)\]](#)   **IEEE JNL****20 Flux leakage effect on subsidiary resonance of optical disk drives***Kyihwan Park; Jinkyu Seo; Semyung Wang; Hoseop Jung;*

Magnetics, IEEE Transactions on , Volume: 35 , Issue: 5 , Sept. 1999

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**21 Design and optimization of a dual-stage high bandwidth piggy-back electromagnetic milli-actuator**

*Lin, H.; Ong, E.H.;*

Magnetics, IEEE Transactions on , Volume: 35 , Issue: 5 , Sept. 1999  
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**22 Study of head/disc interface dynamics using a thermal asperity sensor**

*Sundaram, R.; Wei Yao; Ku, R.C.; Kuo, D.;*

Magnetics, IEEE Transactions on , Volume: 35 , Issue: 5 , Sept. 1999  
Pages:2481 - 2483

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**23 Design and analysis of a high bandwidth disk drive servo system using an instrumented suspension**

*Yuhong Huang; Banther, M.; Mathur, P.D.; Messner, W.C.;*

Mechatronics, IEEE/ASME Transactions on , Volume: 4 , Issue: 2 , June 1999  
Pages:196 - 206

[\[Abstract\]](#) [\[PDF Full-Text \(340 KB\)\]](#) [IEEE JNL](#)

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**24 Design of a high bandwidth moving-coil actuator with force couple actuation for HDDs]**

*Mah, Y.A.; Lin, H.; Li, Q.H.; Chen, S.X.;*

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Pages:874 - 878

[\[Abstract\]](#) [\[PDF Full-Text \(416 KB\)\]](#) [IEEE JNL](#)

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**25 Taming disk/spindle vibrations through aerodynamic bearings and acoustically tuned-mass dampers**

*Bittner, H.; Shen, I.Y.;*

Magnetics, IEEE Transactions on , Volume: 35 , Issue: 2 , March 1999  
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[\[Abstract\]](#) [\[PDF Full-Text \(488 KB\)\]](#) [IEEE JNL](#)

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**26 Dynamics of suspension-slider-air-bearing systems: experimental study**

*Qing-Hua Zeng; Bogy, D.B.;*

Mechatronics, IEEE/ASME Transactions on , Volume: 3 , Issue: 3 , Sept. 1998  
Pages:210 - 217

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**27 Head-positioning control using resonant modes in hard disk drives**

*Atsumi, T.; Arisaka, T.; Shimizu, T.; Masuda, H.;*

Advanced Motion Control, 2004. AMC '04. The 8th IEEE International Workshop on , 25-28 March 2004  
Pages:311 - 316

[\[Abstract\]](#) [\[PDF Full-Text \(1519 KB\)\]](#) [IEEE CNF](#)

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28 **Controller optimization for minimum position error signals of hard disk drives**

*Ho Seong Lee;*

American Control Conference, 2000. Proceedings of the 2000 , Volume: 5 , 28-30 June 2000

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29 **Active damping in HDD actuator**

*Fu-Ying Huang; Semba, T.; Imaino, W.; Lee, F.;*

Asia-Pacific Magnetic Recording Conference, 2000. APMRC 2000 , 6-8 Nov. 2000

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30 **Fabrication of metallic and silicon microactuators with high-aspect-ratio driving gaps**

*Iizuka, T.; Oba, T.; Fujita, H.;*

Asia-Pacific Magnetic Recording Conference, 2000. APMRC 2000 , 6-8 Nov. 2000

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Pages:TP11/1 - TP11/2

[\[Abstract\]](#)   [\[PDF Full-Text \(168 KB\)\]](#)   IEEE CNF**32 A study of the residual vibration during the seek-settling period for hard disk drives***Uchida, H.; Semba, T.;*

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Pages:MP19/1 - MP19/2

[\[Abstract\]](#)   [\[PDF Full-Text \(136 KB\)\]](#)   IEEE CNF**33 Head-media interface instability under hostile operating conditions***Tunstall, G.; Clegg, W.; Jenkins, D.; Chilumbu, C.;*

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[\[Abstract\]](#)   [\[PDF Full-Text \(268 KB\)\]](#)   IEEE CNF**34 Track-following control with active vibration damping of a PZT-actuated suspension dual-stage servo system***Yunfeng Li; Marcassa, F.; Horowitz, R.; Oboe, R.; Evans, R.;*

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Pages:2553 - 2559 vol.3

[\[Abstract\]](#)   [\[PDF Full-Text \(665 KB\)\]](#)   IEEE CNF**35 A higher bandwidth servo design with strain feedback control for**

**magnetic disk drives**

*Nakagawa, S.; Kobayashi, M.; Yamaguchi, T.;*

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**36 Use of the relative position signal for microactuators in hard disk drives**

*White, M.T.; Hirano, T.;*

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**37 Compensation of mode shapes with a piezo electric actuator for an optical drive**

*Cloosterman, M.; Goossens, H.; Steinbuch, M.; Schneiders, M.;*

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**38 Servo control design for a hard disk drive based on estimated head position at high sampling rates**

*Ioannou, P.A.; Haojian Xu; Fidan, B.;*

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**39 High performance controller design of HDD based on precise modeling using differential iteration method**

*Kawafuku, M.; Otsu, K.; Hirai, H.; Kobayashi, M.;*

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Pages:4341 - 4346 vol.5

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**40 Experimental dynamic modeling and characterisations of disk platter resonances**

*Chee Khiang Pang; Eng Hong Ong; Guoxiao Guo;*

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2002 IEEE International , 28 April-2 May 2002

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[\[Abstract\]](#) [\[PDF Full-Text \(257 KB\)\]](#) IEEE CNF

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**41 Performance characteristics of actuator/bearing joints made with tolerance rings**

*Slayne, A.R.;*

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**42 Optimization of track seeking pulse waveform in hard disk drives**

*Sheng Zeng; Limei Xu; Rongming Lin; Ningqun Guo;*

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**43 Electrostatic microactuator for future hard disk drive**

*Sassolini, S.; Del Sarto, M.; Baldo, L.;*

Magnetic Recording Conference, 2002. Digest of the Asia-Pacific , 27-29 Aug. 2002

Pages:WE-P-09-01 - WE-P-09-02

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**44 Feedback control of disk vibration/flutter by distributed self-sensing actuators**

*Yan, T.H.; Lin, R.M.;*

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**45 Vibration control of a PZT actuated suspension dual-stage servo system using a PZT sensor**

*Yunfeng Li; Horowitz, R.; Evans, R.;*

Magnetic Recording Conference, 2002. Digest of the Asia-Pacific , 27-29 Aug. 2002

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46 **Seek control and settling control taming actuator resonance of HDD**  
*Takaishi, K.; Saito, S.;*  
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**73 Multirate control for head actuator assembly vibration compensation with an accelerometer**

*Jianying Zhou; Youyi Wang;*

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*Boung Jun Kim; Soo Hyun Kim; Yoon Keun Kwak;*

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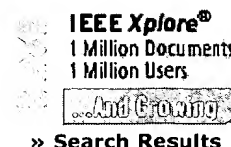
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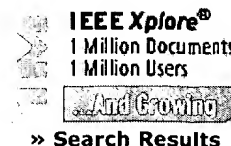
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*Jang, G.H.; Kim, D.K.; Han, J.H.;*

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*Qing-Hua Zeng; Bogy, D.B.;*

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[\[Abstract\]](#) [\[PDF Full-Text \(252 KB\)\]](#) IEEE CNF

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**23 Enhancing suspension performance with 3-ply laminated load beam**

*Thaveeprungsriporn, V.; Sittipongpanich, K.; Imoeb, P.; Chayapancha, M.;*

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**24 Robust /spl mu/-design of a disk drive servo system**

*Petkov, P.H.; Gu, D.-W.; Konstantinov, M.M.;*

Computer Aided Control System Design, 2002. Proceedings. 2002 IEEE

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**25 Design of a HDD servomechanism with proximate time optimal sliding mode**

*Mingxuan Sun; Youyi Wang;*

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**26 Active vibration control of a PZT actuated suspension in hard disk drives**

*Yunfeng Li; Horowitz, R.;*

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*Chow, J.T.; Lawrence, D.A.;*

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**28 Dynamic analysis of swing-arm type actuator of ODD**

*Young-Pil Park; Hyun-Seok Yang; No-Cheol Park; Won-Ik Cho;*

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**29 Nonlinear dynamic effects at the head-disk interface**

*Knigge, B.; Talke, F.E.;*

*Magnetics, IEEE Transactions on , Volume: 37 , Issue: 2 , March 2001*

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**30 Shaped time-optimal control for disk drive systems with back EMF, slew rate limits, and different acceleration and deceleration rates**

*La-orpacharapan, C.; Pao, L.Y.;*

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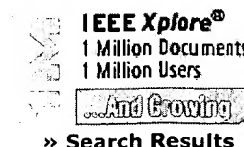
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#### 1 The acoustic noise characteristics of HDD due to the structural excitation of spindle motor

*Young Son; Tae-Yeon Hwang; Seong-Woo Kang; Yun-Sik Han; Ja-Choon Koo;*  
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#### 2 Effect of drive modes on the acoustic noise of fluid dynamic bearing spindle motors

*Lin, S.; Jiang, Q.; Mamun, A.A.; Bi, C.;*  
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[\[Abstract\]](#)   [\[PDF Full-Text \(321 KB\)\]](#)   **IEEE JNL**

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*Shoda, M.; Tani, H.;*  
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#### 4 Reduction of acoustic noise in FDB spindle motors by using drive technology

*Bi, C.; Jiang, Q.; Lin, S.; Low, T.S.; Mamun, A.A.;*  
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*Bhushan, B.; Yuanjie Wu; Tambe, N.S.;*

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**7 Comparison of vibration sources between symmetric and asymmetric HDD spindle motors with rotor eccentricity**

*Sang-Moon Hwang; Kyung-Tae Kim; Weui-Bong Jeong; Yoong-Ho Jung; Beom-Soo Kang;*

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**13 Charge generation and bleed-off in spindle motors with ceramic ball bearings**

*Klaassen, K.B.; van Peppen, J.C.L.;*

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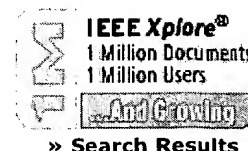
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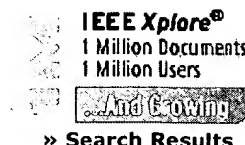
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Pages:AA4-01 - AA4-02[\[Abstract\]](#)   [\[PDF Full-Text \(236 KB\)\]](#)   **IEEE CNF****5 High exchange bias field and low noise IrMn/CoZrNb layers achieved by rapid thermal annealing for perpendicular recording media***Takenoiri, S.; Enomoto, K.; Sakai, Y.; Watanabe, S.;*

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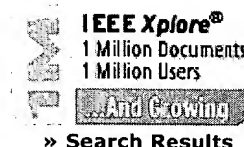
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**1 Characterization of NRRO in a HDD spindle system due to ball bearing excitation**

*Jang, G.H.; Kim, D.K.; Han, J.H.;*

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*Hasegawa, T.; Hongbing Du; Osawa, H.; Nishimura, H.; Oe, T.;*

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*Venkataramanan, V.; Kemao Peng; Chen, B.M.; Lee, T.H.;*

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*Messner, W.;*

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*Heo, B.; Shen, I.Y.;*

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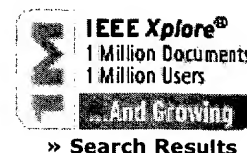
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☐ Check to search within this result set**Results Key:****JNL** = Journal or Magazine   **CNF** = Conference   **STD** = Standard**16 Dynamics of suspension-slider-air-bearing systems: experimental study***Qing-Hua Zeng; Bogy, D.B.;*

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**23 Enhancing suspension performance with 3-ply laminated load beam**

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